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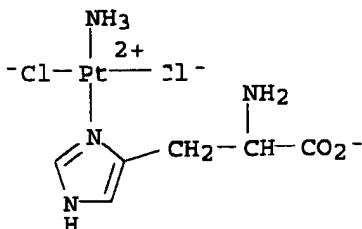
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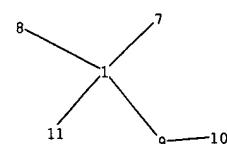
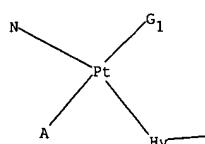
06/03/2003

09678595.trn

L7 ANSWER 70 OF 87 CAPLUS COPYRIGHT 2003 ACS  
 AB Various Pt(II)-L-histidine (HL) complexes were prep'd. by reaction of K2PtCl4 (I) or cis-[Pt(NH3)2Cl2] (II) with HL and analyzed by 1H and 13C NMR spectroscopy, electrophoresis, and ion-exchange chromatog. HL may be coordinated to Pt by the imidazole imino group and/or the .alpha.-amino group; the carboxy group always remains free. I reacted with HL and HCl to give 2 isomers of cis-Pt(HL)2Cl2 in which HL is coordinated through the amino N or imino N atom. II reacts with HL to give a mixt. of compds. including cis-Pt(NH3)2HL (III) and 3 isomers of cis-[Pt(NH3)2(HL)2]Cl2, differing in the monodentate mode of coordination of HL. The reaction of III with HCl gave 2 isomers of Pt(NH3)(HL)Cl2 in which HL is ligated to Pt by an amino or imino group. The methods applied are suitable for analyzing reactions of HL with II under model conditions similar to physiol. conditions.

ACCESSION NUMBER: 1985:124545 CAPLUS  
 DOCUMENT NUMBER: 102:124545  
 TITLE: The reaction of platinum antitumor drugs with selected nucleophiles. II. Preparation and characterization of coordination compounds of platinum(II) and L-histidine  
 AUTHOR(S): Saudek, V.; Pivcova, H.; Noskova, D.; Drobniak, J.  
 CORPORATE SOURCE: Inst. Macromol. Chem., Czech. Acad. Sci., Prague, 162 06, Czech.  
 SOURCE: Journal of Inorganic Biochemistry (1985), 23(1), 55-72  
 CODEN: JIBIDJ; ISSN: 0162-0134  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 95381-03-6P  
 RL: FORM (Formation, nonpreparative); PREP (Preparation)  
 (formation of, from platinum histidine complex and hydrochloric acid)  
 RN 95381-03-6 CAPLUS  
 CN Platinato(1-), amminedichloro(L-histidinato-N3)-, hydrogen,  
 monohydrochloride (9CI) (CA INDEX NAME)





chain nodes :  
1 2 3 4 7 8 9 10 11  
chain bonds :  
1-7 1-8 1-9 1-11 2-3 2-4 9-10  
exact/norm bonds :  
1-7 1-9 1-11 2-3 2-4 9-10  
exact bonds :  
1-8

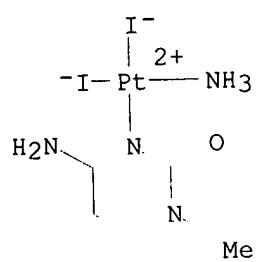
G1:OH,X,[\*1]

Match level :  
1:CLASS 2:CLASS 3:CLASS 4:CLASS 7:CLASS 8:CLASS 9:Atom 10:CLASS 11:CLASS  
Generic attributes :  
9:  
Saturation : Unsaturated  
Number of Hetero Atoms : 2 or more  
Type of Ring System : Monocyclic

L22 ANSWER 10 OF 63 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1997:295135 CAPLUS  
DOCUMENT NUMBER: 126:311303  
TITLE: Platinum(II) nucleobase complexes containing up to four different ligands: syntheses and x-ray structure determinations of cis-[PtI(1-MeC)<sub>2</sub>(NH<sub>3</sub>)<sub>2</sub>]ClO<sub>4</sub> and [PtI(1-MeC)(9-EtGH)(NH<sub>3</sub>)<sub>2</sub>]ClO<sub>4</sub>.cndot.1.5H<sub>2</sub>O  
Wienkotter, Thomas; Sabat, Michal; Trotscher-Kaus,  
Gabriele; Lippert, Bernhard  
Fachbereich Chemie, Univ. Dortmund, Dortmund, D-44221,  
Germany  
Inorg. Chim. Acta (1997), 255(2), 361-366  
SOURCE: CODEN: ICHAA3; ISSN: 0020-1693  
PUBLISHER: Elsevier  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB A square-planar Pt(II) complex contg. four different ligands, including the two model nucleobases 1-methylcytosine (1-MeC) and 9-ethylguanine (9-EtGH), was prep'd. and studied by x-ray crystallog. [PtI(1-MeC)(9-EtGH)(NH<sub>3</sub>)<sub>2</sub>]ClO<sub>4</sub>.cndot.1.5H<sub>2</sub>O (1) crystallizes in the monoclinic system, space group C2/c with a 16.577(3), b 16.638(2), c 17.923(3) .ANG., .beta. 114.37(1).degree., Z = 8. The two nucleobases which are platinated at N3 (1-MeC) and N7 (9-EtGH) are cis to each other and oriented in a way as to form a very weak H bond (3.39 .ANG.) between NH<sub>2</sub>(4) of 1-MeC and O(6) of 9-EtGH. The guanine ligand is trans to I-. The title compd. represents one of three possible geometrical isomers of compds. having this compn. A closely related complex, cis-[PtI(1-MeC)<sub>2</sub>(NH<sub>3</sub>)<sub>2</sub>]ClO<sub>4</sub> (3), has likewise been isolated and x-ray structurally characterized: triclinic system, space group P.hivin.1 with a 10.490(4), b 10.886(4), c 9.529(3) .ANG., .alpha. 94.18(3), .beta. 106.28(3), .gamma. 106.33(3).degree., Z = 2. In 3 the two 1-MeC bases are platinated at N3 and oriented head-tail, with intramol. H bonds of 3.22 and 2.95 .ANG. between pairs of NH<sub>2</sub>(4) and O(2) groups.  
IT 161269-39-2  
RN 161269-39-2 CAPLUS  
CN Platinum, (4-amino-1-methyl-2(1H)-pyrimidinone-.kappa.N3)amminediiodo-, (SP-4-1)- (9CI) (CA INDEX NAME)

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L22 ANSWER 13 OF 63 CAPLUS COPYRIGHT 2001 \*\*\*  
ACCESSION NUMBER: 1996:490063 CAPLUS  
DOCUMENT NUMBER: 125:211928

TITLE: New perfluorophthalate complexes of platinum(II) with chemotherapeutic potential

AUTHOR(S): de Oliveira, M. B.; Miller, J.; Banks, R. E.; Kelland, L. R.; McAuliffe, C. A.; Mahmood, N.; Rowland, J. J.

CORPORATE SOURCE: Dep. Chem., Fed. Univ. Paraiba, Joao Pessoa, 58059-000, Brazil

SOURCE: Met.-Based Drugs (1996), 3(3), 117-122  
CODEN: MBADEI; ISSN: 0793-0291

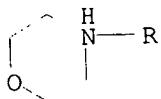
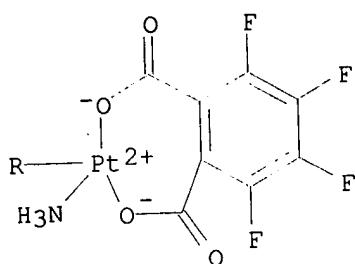
DOCUMENT TYPE: Journal

LANGUAGE: English

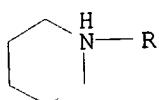
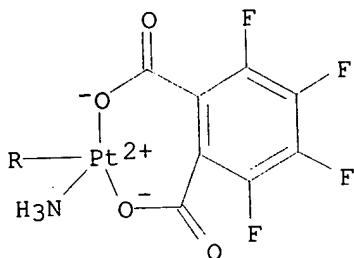
AB Two new platinum(II) complexes have been synthesized and their anti-tumor and anti-HIV activities have been evaluated. The new complexes are: (i) cis-tetrafluorophthalate-ammine-morpholine-platinum(II) or MMF3 and (ii) cis-tetrafluorophthalate-ammine-piperidine-platinum(II) or MPF4. They were characterized by elemental anal., IR spectra and  $^{1}\text{H}$  and  $^{13}\text{C}$  NMR spectra. They were tested against five human ovarian carcinoma cell lines, viz., CH1, CH1cisR, A2780, A2780cisR and SKOV-3. They were less active than cis-platin and showed cross-resistance with cis-platin in the CH1cisR and A2780cisR acquired resistance lines. They were also tested for possible anti-HIV activity using the HIV-I IIIB virus and C8166 cells, but they were inactive compared with AZT.

IT 181276-56-2P 181276-57-3P  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

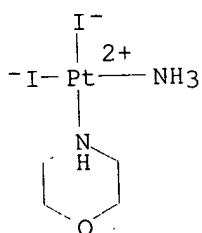
RN 181276-56-2 CAPLUS  
CN Platinum, ammine(morpholine-N4)[3,4,5,6-tetrafluoro-1,2-benzenedicarboxylato(2-)-O1,O2]-, (SP-4-3)- (9CI) (CA INDEX NAME)



RN 181276-57-3 CAPLUS  
 CN Platinum, ammine(piperidine)[3,4,5,6-tetrafluoro-1,2-benzenedicarboxylato(2-)-O1,O2]-, (SP-4-3)- (9CI) (CA INDEX NAME)



IT 103436-53-9P 116235-97-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (antitumor and anti-HIV activities of new perfluorophthalate complexes  
 with platinum(II) in human cells)  
 RN 103436-53-9 CAPLUS  
 CN Platinum, amminediido(morpholine-N4)-, (SP-4-3)- (9CI) (CA INDEX NAME)



RN 116235-97-3 CAPLUS

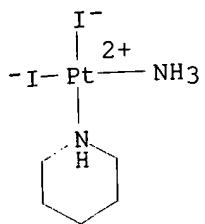
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Platinum, amminediido(piperidine)-, (SP-4-3)- (9CI) (CA INDEX NAME)



X22 ANSWER 20 OF 63 CAPLUS COPYRIGHT 2001 ACS  
ACCESSION NUMBER: 1994:123362 CAPLUS  
DOCUMENT NUMBER: 120:123362  
TITLE: Structures of the nitroimidazole platinum group metal complexes: cis-amminedibromo[1-((2-hydroxyethyl)amino)carbonyl]methyl)-2-nitroimidazole]platinum(II) and trans-dichlorobis(1-hydroxyethyl-2-methyl-5-nitroimidazole)palladium(II)  
Rochon, Fernande D.; Melanson, Robert; Farrell, Nicholas  
AUTHOR(S):  
CORPORATE SOURCE:  
SOURCE: Dep. Chem., Univ. Quebec, Montreal, PQ, H3C 3P8, Can.  
Acta Crystallogr., Sect. C: Cryst. Struct. Commun.  
(1993), C49(10), 1703-6  
DOCUMENT TYPE: CODEN: ACSCEE; ISSN: 0108-2701  
LANGUAGE: Journal  
English  
AB Cis-[PtBr<sub>2</sub>L(NH<sub>3</sub>)] (L = N-(2-hydroxyethyl)-2-nitroimidazole-1-acetamide (etanidazole)) was prep'd. and crystd. in orthorhombic, space group Pnca, Z = 8, R = 0.062. Pt has a square-planar coordination. The Pt-Br bond

trans to the nitroimidazole ligand is slightly shorter [2.375 (3) .ANG.] than the Pt-Br bond trans to NH<sub>3</sub> [2.397 (3) .ANG.]. The dihedral angle between the Pt coordination plane and the imidazole ring is 69.1.degree., while the nitro group makes an angle of 32.degree. with the imidazole ring plane. The structure is stabilized by the hydrogen bonding of the NH<sub>3</sub> ligands and the hydroxyl groups. The crystal structure was also detd. for trans-[PdCl<sub>2</sub>L'2] (L' = 2-methyl-5-nitroimidazole-1-ethanol (metronidazole)) monoclinic, space group P21/c, Z = 2, R = 0.027. The bond distances Pd-Cl = 2.297 (1) and Pt-N = 2.007 (2) .ANG.. The dihedral angle between the Pd coordination plane and the imidazole ring is 88.6 (1).degree., while the nitro groups make an angle of 3.9(3).degree. with the imidazole plane. The structure is stabilized by hydrogen bonding between the hydroxyl groups and the chloro ligands.

IT 152837-74-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and crystal structure of)

RN 152837-74-6 CAPLUS

CN Platinum, amminatedibromo[N-(2-hydroxyethyl)-2-nitro-1H-imidazole-1-acetamide-N3]-, (SP-4-3)- (9CI) (CA INDEX NAME)

